1	GCACGAGGAACAGACACTTTCTCATGTCCAGGGTCAGATTACAAGAGCACTCAAGACTT	60
61	TACTGACGAAAACTCAGGAAATCCTCTATCACAAAGAGGTTTGGCAACTAAACTAAGACA	120
121	TTAAAAGGAAAATACCAGATGCCACTCTGCAGGCTGCAATAACTACTACTTACT	180
181 1	ATTCAAACCCTCCAGAATCAACAGTTATCAGGTAACCAACAAGAAATGCAAGCCGTCGAC M Q A V D	240 5
241 6	AATCTCACCTCTGCGCCTGGGAACACCAGTCTGTGCACCAGAGACTACAAAATCACCCAG N L T S A P G N T S L C T R D Y K I T Q	300 25
301 26	GTCCTCTTCCCACTGCTCTACACTGTCCTGTTTTTTGTTGGACTTATCACAAATGGCCTGV L F P L L Y T V L F F V G L I T N G L	360 45
361 46	GCGATGAGGATTITCTTTCAAATCCGGAGTAAATCAAACTTTATTATTTTTCTTAAGAAC A M R I F F Q I R S K S N F I I F L K N	420 65
421 66	ACAGTCATTTCTGATCTTCTCATGATTCTGACTTTTCCATTCAAAATTCTTAGTGATGCC T V I S D L L M I L T F P F K I L S D A	480 85
481 86	AAACTGGGAACAGGACCACTGAGAACTTTTGTGTGTCAAGTTACCTCCGTCATATTTTAT K L G T G P L R T F V C Q V T S V I F Y	540 105
541 106	TTCACAATGTATATCAGTATTTCATTCCTGGGACTGATAACTATCGATCG	600 125
601 126	ACCACCAGGCCATTTAAAACATCCAACCCCAAAAATCTCTTGGGGGCTAAGATTCTCTCT T T R P F K T S N P K N L L G A K I L S	660 145
	GTTGTCATCTGGGCATTCATGTTCTTACTCTCTTtGCCTAACATGATTCTGACCAACAGg	720 165
	CAGCCGAGAGACAAGAATGTGaAGAAaTGCTCTTTCCTTAAATCAGAGTTCGGTCTAGTC QPRDKNVKKCSFLKSEFGLV	780 185
	TGGCATGAAATAGTAAATTACATCTGTCAAGTCATTTTCTGGATTAATTTCTTAATTGTT W H E I V N Y I C Q V I F W I N F L I V	840 205

FIG.1A

841	АТТ	GT/	ATG	ΠΑ	TAC	ACT(CAT	TAC	4 AA	AGA	ACT	GTA	CCG	GTC	ATA	CGT	AAG	AAC	GAG	GGGT	900
206	I	٧	С	Υ	Τ	L	Ι	Т	K	Ε	L	Υ	R	S	Υ	V	R	T	R	G	225
901 226			raa/ K		CCC P			AAA(K		gaa N	CGT V			F	CAT I	TAT I	CAT I	TGC A		ATTC F	960 245
961 246	TTT F		ΠG C					CCA ⁻ H				AAT I	TCC P				GAG S			CCGG R	1020 265
L021 266		rgt(TGA. E			TCT L		CTA Y	TGT V	gaa K	AGA E	GAG S		TCT L	GTGG W	1080 285
1081 286			TTC S			TGC A		CCT L		TCC P	GTT F	CAT I	CTA Y	TTT F			TTG C		GTC S	CTTC F	1140 305
1141 306	AG/ R				GAT I			GCT L									TCT L			AGGAC D	1200 325
1201 326			GAA K				GGA D		TGG G		CCC P	AAA N			GAC T			GTA *	VAA C	CAAAT	1260 343
1261	TA	ACT	AA G	GA4	A TA	ТП	CAA	тст	стт	TGT	GΤΊ	CA6	SAAC	TC	att <i>i</i>	\AA @	ECA#	AG C	CGCT	AAGT	1320
1321	AA	AAA	TAT	TAA	CTO	ACG	AA(AAG	CAA	\CT#	\AG1	Π Α /	\TAA	\TA/	ATG/	ACTO	TA/	\AG/	\AA(CAGAA	1380
1381	GA	TTA	CAA	AAG	GCA/	ΑΤΠ	TCA	Т	ACC	ТΠ	CC#	AGTA	ATG/	VAA/	\GC7	ΓΑΤ	CTTA	VAA /	TATA	TAGAA	1440
1441	AA	CTA	V ATC	TAA	\AC	rgt <i>i</i>	AGC7	rgt <i>e</i>	ATT#	AGC#	AGC/	\	ACA/	ACO	GAC/	AT _. C(CAAT	ΠG	ГСАТ	rgctg	1500
1501	CA	TGC	CAA	VAC7	ГАСА	ACA(AA	ITC#	ATGT	П	ΓGg(CAG	AGT⊺	TT(GGC/	4 AA/	ATG/	AGTA	4A T(CATAT	1560
1561	AA	TAT	ПΤА	ACT(STA.	ATT	ПΤ/	\	ATA	CAT	ΓΑΤ	CGT	TCA	CAA	ПТ	TAT	Ш	ТС	ATA	ATCAA	1620
1621 ⁻	CT	AA (GAV	AGA	ACG/	ATC/	AAT	rgg/	ATA	TAA ⁻	тст	тст	TAC	CAA	AAA	TGA	TAG	ΓTΑ	AAA ⁻	TGTAT	1680
1681	АТ	ATA	ATC(CTA	GTC	CCC ⁻	ΓΑΑ	CCa/	4A T(CCT	GAC	CTA ⁻	TTG	GGA	TAC	TTA	TAA	AAA [.]	Ш	AAGTA	1740
1741	ΑŒ	aTG(GGA ⁻	ΓAC	ACA	AAG.	AAT.	AAT	AAC	TAT	TAA	СТТ	ПС	ATT.	ATT.	AGC	cAA	AAA	ССТ	AAGGG	1800

FIG.1B

¥,...

1801	ATTTAAACTAATTGAAaCTGTATTTGATTGGACTTAATTTTTTATGTTTATTTAGAAGAT	1860
1861	AAAGATTTAAGAAGACCTTTACAATAAAGAGAAGAAATATCGAAGTCATTAAAATAAGGA	1920
1921	GACTTACTTTTATGACATTCTAATACTAAAAAATATAGAAATATTTCCTTAATTCTAGAG	1980
1981	AAACTAGTTTTACTAATTTTTTACAACTTCAATAATACCATCACTGACACTTACCTTTAT	2040
2041	TAATTAGCTTCTAGAAAATAGCTGCTAATTAGGTTAATGAACATTTTACCTTAGTGAAAA	2100
2101	AAAaTTAATTAAATATGATTACAAAGTTGCACAGCATAACTACTGAGAGGAAAGTGATTG	2160
2161	ATCTGTTTGTAATTACTTGTTTGTATTGGTGTGTATAAAATACAAATTTACATTAAACTC	2220
2221	TAAAtcattaaaAAAAAAAAAAAAAAAAA 2247	

FIG.1C

1	MQAVDNLTSAPGNTSLCTRDYKITQVLFPLLYTVLFFVGLITNGLA	46
3	: .: : .:. .:::: .:: :: :. IQMANNFTPPSATPQGNDCDLYAHHSTARIVMPLHYSLVFIIGLVGNLLA	52
47	MRIFFQIRSKSN.FIIFLKNTVISDLLMILTFPFKILSDAKLGTGPLRTF:::.	95
53	LVVIVQNRKKINSTTLYSTNLVISDILFTTALPTRIAYYAMGFDWRIGDA	102
96	VCQVTSVIFYFTMYISISFLGLITIDRYQKTTRPFKTSNPKNLLGAKILS	145
103	: .: .:: :. ::. :. :. :: :: .: :: LCRITALVFYINTYAGVNFMTCLSIDRFIAVVHPLRYNKIKRIEHAKGVC	152
146	VVIWAFMFLLSLPNMILTNRQPRDKNVKKCSFLKSEFGLVWHEIVNYI	193
153	::: :: . : :::: : . ::: IFVWILVFAQTLPLLINPMSKQEAERITCMEYPNFEETKSLPWILLGACF	202
194	CQVIFWINFLIVIVCYTLITKELYRSYVRTRGVGKVPRKKVNVKVFII	241
203	:: :: ::: . : :: : : . :: IGYVLPLIIILICYSQICCKLFRTAKQNPLTEKSGVNKKALNTIILII	250
242	IAVFFICFVPFHFARIPYTLSQTRDVFDCTAENTLFYVKESTLWLTSL	289
251	: .: . : . : :.:: : : .: V.VFVLCFTPYHVAIIQHMIKKLRFSNFLECSQRHSFQISLHFTVCLMNF	299
290	NACLDPFIYFFLCKSFRNSLISMLKCPNSATSLSQDNRKKEQDGGDPNEE	339
300		348
	TPM 342	
	. TOM 351	

FIG.2

1	GGC	ACG	AGC	CCA	CCC.	TGC	GTC	GGG	CCT	CAG	TCA	GCC	CCC	GGG	GGA	GGC					60 4
1																	М	N	Α	ı	4
61	GGG	GAC	CCC	GGT	GGC	CCC	CGA	GTC	CTG	CCA	ACA	GCT	GGC	GGC	CGG	CGG	GCA	CAG	CCG	GCT	120
5	G	T	P	٧	Α	P	Ε	S	С	Q	Q	L	Α	Α	G	G	Н	S	R	L	24
121	CAT	TGT	TCT	GCA	СТА	CAA	CCA	СТС	GGG	CCG	GCT	GGC	CGG	GCG	CGG	GGG	GCC	GGA	GGA	TGG	180
25						N												E		G	44
181	CGG	ССТ	GGG	GGC	CCT	ርርር	GGG	GCT	GTC	GGT	GGC	CGC	CAG	CTG	ССТ	GGT	GGT	GCT	GGA	GAA	240
45						R									L		٧	L	Ε	N	64
241	стт	CCT	сст	CCT		יככר	СΔТ	ጉልር	CAG	CCA	САТ	GCG	GTC	GCA	ACG	CTG	GGT	СТА	CTA	TTG	300
65						A					M				R		۷		Υ		84
201	CCT	· с с т	·	CAT	-TAC	•сат	·	TCA	сст	'CCT	ጉለር	CCC	ጉርር	CCC	СΤΔ	CCT	GGC	`C	CGT	GCT	360
301 85		44 1 V	GAA N	I	T	M M												N		L	104
							·^ 	-000	. TOT	-000		• • • • • • • • • • • • • • • • • • • •	·CC	CTC	c it	тост	.v.c	2C A A	/CCC	CCT	420
361 105		GIC				JAJE T										L			G.	CCT L	124
	_	_															• • • •	2077		·cTT	480
421 125																			R	CTT F	144
123																					5.40
481																			TCTA Y	CGG	540 164
145	А	Т	ľ	V	K	Г	٧	A	L	3	u	^	•	iX.	•		•	•	•	u	10,
541																	_			CTG	600 184
165	F	I	G	L	·C	W	L	L	Α	Α	L	L	G	М	L	Р	L	L	G	W	104
601	GA	ACT	GCC	TGT	GCG	ССТ	ΠG	ACC	GCT	GCT(CCA	GCC	ПС	TGC	CCC	rct/	ACT	CCA	AGC	CTA	660
185	N	С	L	С	Α	F	D	R	С	S	S	L	L	P	L	Υ	S	K	R	Υ	204
661	CA	TCC	TCT	тст	GCC	TGG	TGA	тст	TCG	CCG	GCG	TCC	TGG	CCA	CCA	TCA	TGG	GCC	TCT	ATGG	720
205																			Υ		224
721	GG		TCT	ፐርቦ	ር ርር	TGG	TGC	AGG	CCA	GCG	GGC.	AGA	AGG	CCC	CAC	GCC	CAG	CGG	CCC	GCCG	780
																				R	

FIG.3A

CAAGGCCCGCCGCCTGCTGAAGACGGTGCTGATGATCCTGCTGGCCTTCTTGGTGTGCTG 840 781 A R R L L K T V L M I L L A F L V C 264 245 GGGACCACTCTTCGGGCTGCTGCCGACGTCTTTGGCTCCAACCTCTGGGCCCAGGA 900 841 284 G P L F G L L L A D V F G S N 265 GTACCTGCGGGGCATGGACTGGATCCTGGCCCTGGCCGTCCTCAACTCGGCGGTCAACCC 960 901 LRGMDWILALAVLNSA 304 285 CATCATCTACTCCTTCCGCAGCAGGGAGGTGTGCAGAGCCGTGCTCAGCTTCCTCTGCTG 1020 961 Y S F R S R E V C R A V L S F L C 324 305 CGGGTGTCTCCGGCTGGGCATGCGAGGGCCCGGGGACTGCCTGGCCCGGGCCGTCGAGGC 1080 1021 GCLRLGMRGPGDCLARAVEA 344 325 TCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGCTC 1140 1081 H S G A S T T D S S L R P R D S F R G 364 345 CCGCTCGCTCAGCTTTCGGATGCGGGAGCCCCTGTCCAGCATCTCCAGCGTGCGGAGCAT 1200 1141 PLSSISS 384 RMRE S F 365 R S 1260 1201 385 * 385 CCTGGGGTACAGGAAGCTGTGCACGCAACCTCGCCCTGTATGGGGAGCAGGGAACGGG 1320 1261 ACAGGCCCCATGGACTTGCCCGGTGGCCTCTCGGGGCTTCTGACGCCATATGGACTTGC 1380 1321 CCATTGCCTATGGCTCACCCTGGACAAGGAGGCAACCACCCCACCTCCCCGTAGGAGCAG 1440 1381 AGAGCACCCTGGTGTGGGGCGAGTGGGTTCCCCACAACCCCGCTTCTGTGTGATTCTGG 1500 1501 GGAAGTCCCGGCCCCTCTCTGGGCCTCAGTAGGGCTCCCAGGCTGCAAGGGGTGGACTGT 1560 1621 AAAAAAAAAAAAAAA 1637

FIG.3B

1	MNATGTPVAPESCQQLAAGGHSRLIVLHYNHSGRLAGRGGPEDGGLGALR	50
1	.: :. : : :: : ::. : :: . MGPTSVPLVKAHRSSVSDYVNYDIIVRHYNYTGKLNISADKEN.SIKLTS	49
51	GLSVAASCLVVLENLLVLAAITSHMRSQRWVYYCLVNITMSDLLTGAAYL .: : : ::: :: . : : : :. :.: . .	100
50	VVFILICCFIILENIFVLLTIWKTKKFHRPMYYFIGNLALSDLLAGVAYT	99
101	ANVLLSGARTFRLAPAQWFLRKGLLFTALAASTFSLLFTAGLRFATMVRP	150
100	: :: . : . . . :: ANLLLSGATTYKLTPAQWFLREGSMFVALSASVFSLLAIAIERYITMLKM	149
151	VAESGATKTSRVYGFIGLCWLLAALLGMLPLLGWNCLCAFDRCSSLLPLY :: : : ::. : :: :: : .:	200
150	KLHNGS.NNFRLFLLISACWVISLILGGLPIMGWNCISALSSCSTVLPLY	198
201	SKRYILFCLVIFAGVLATIMGLYGAIFRLVQASGQKAPRPAARRKARR	248
199	HKHYILFCTTVFTLLLLSIVILYCRIYSLVRTRSRRLTFRKNISKASRSS	248
249	LLKTVLMILLAFLVCWGPLFGLLLADVFGSNLWAQEYLRGMDWILA	294
249	::: . :. : :.:: ::: . ENVALLKTVIIVLSVFIACWAPLFILLLLDV.GCKVKTCDILFRAEYFLV	297
295	LAVLNSAVNPIIYSFRSREVCRAVLSFLCCGCLRLGMRGPGDCLARAVEA	344
298	:. .:.: : .:.:: :.::: :: LAVLNSGTNPIIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIA	345
345		
346	: : . : :: GMEFSRSKSDNSSHPQKDEGDNPETIMSSGNVNSSS 381	

FIG.4